171 use honey dew which forms on Phragmites communis, also on rush, Juncus; Yavapai and Papago obtain it principally from willow, but also from cane.

262 Tübatulabal also occasionally sucked sections
263 of freshly cut cane for its sweetness (SM).

Saline crystals which form in dry hot weather
258 on salt grass made into "salt" (tu·t). Salt grass
137 grows in saline areas, on valley floors, at base
824 of foothills; its utilization among Tübatulabal depended on weather, as "after a rain it takes a month for salt grass to get salt again" (SM). Grass cut, spread out on mats to dry in sun; after grass thoroughly dry same process followed as described above for obtaining honey dew, save that collected crystals made up into balls or flat cakes instead of being spread on tule tray. Chunks
[272 equal to 2-3 full tablespoons broken off dry ball,
278 dissolved in cupful of water and drunk either for
[757 refreshment or as laxative and to rinse out stomach. Salt-grass crystals also obtained by children who took willow switches and "swept" salt grass with them early on summer mornings; when sufficient quantity of crystals had adhered to stick, child took it to shady spot and licked off crystals. Fresh salt grass soaked in water and this water sprinkled over raw chopped clover, or sprigs
[262 of salt grass and clover rolled between hands and
263] eaten. Substance manufactured from salt grass never used to season meat or mushes.

314 Chewing gum made from milky juice of Asclepias
824 erosa Torr. (pololi·wa·bĭ·l); stalk of plant cut near top before it blossomed and juice collected in 4-in. tubular sections of jointed stalk of Eriogonum elongatum gramineum n. var. Stokes (ined.), (šiko·ništ). Joint of stalk served as natural stopper for bottom end of tubular section; juice run into stalk through open upper end; filled sections of stalk set in hot ashes to roast until plant juice inside has congealed; stalks then cut open, gum removed and chewed. This gum "better than store gum" (ES).

262 Meals.- Meals eaten twice daily around sunrise
264 and before sundown. At morning meal (wi·lil) and evening meal (tu·kil) men, children ate first, then women. Meat eaten at both meals, "if people
[415 had it." Men, women used spoons (ta·mil) made from antelope horn (ša·wun) for eating acorn mush (SM), or wooden spoons (FP); PN said spoons of elk, antelope horn not made. Acorn mush eaten with fingers (MM). No formula spoken before eating. Children pieced during day; "mothers gave
[753 them a cup of chia gruel" (SM). Food rarely eaten
[774 after dark as ghosts "come around at night; they might throw something in the food that would make
[609 a person sick" (SM, FP). Because strangers potential enemies who might put poison in food, person avoided eating with them. Women when out for day gathering seeds, tending tobacco, etc., took lunch with them which they ate about 10 or 11 a.m.; men hunting deer "didn't take any food; they came home in the evening" (FP).

[276] Lime.- Tobacco as prepared above used with lime (či·ut), obtained from calcareous deposits
317 in South Fork valley, from burnt fresh-water mussel shells, or by magical means. Lime from deposits dug out of ground near surface of soil in form grayish, powdery mass which was put in fire and burned; sometimes water poured over it to "make it stronger" (ES). Informants said slaking aboriginal technique. Shells of river mussels also burned and pounded to powder in pit mortars.
789 In order to obtain lime by magical means, "an old man used to go to a spring E of Fay creek and scatter eagle down on the water, saying, 'Give me your lime'; then the old man would leave the spring and go and lie down in the shade for about 2 hours. When he returned to the spring the lime would be piled up for him at the edge of the spring, ready for him to take away. An old woman who lived in the spring, šo·ubišt, gave him the lime. Anyone could get lime that way" (SM).
276 Tobacco and lime mixed by taking chunk of tobacco broken off ball, equivalent to teacupful, putting this, together with tablespoonful of lime, into small portable stone mortar kept in house for this purpose, and pounding 2 ingredients with small pestle 3-5 in. long, until they were of consistency of snuff. In aboriginal times this snuff-like admixture (šo'ogonht) kept in container made from horn of mt. sheep (SM).

Uses.- Tobacco and lime chewed, drunk, snuffed, eaten by men and women, and also used as offering. For chewing, pinch of mixture sprinkled in palm of hand and palm licked off; FP when using tobacco and lime applied tongue directly to contents of her open tobacco container, which happened to be tin snuff box. Tobacco and lime, mixed with water, also made into small pellets size of marbles; one of these held on tongue for minute or 2, then spit out into palm of hand; this done 6-7 times a day, whenever person felt like it; made person feel "dizzy" and "drunk" (MM). Tobacco without lime never used for any form of chewing; it was "no good, and made one feel sick; taken with lime it tastes peppery and strong" (SM). Many persons chew habitually; children 6 yrs. old "too young to chew tobacco" according to LT, who added, however, that her own son, barely 6, "likes to take it whenever he can get it."
● 757 Before retiring at night tobacco and lime,
278 mixed with water, drunk; this causes vomiting whereby stomach is rinsed out and person assured of sound, dreamless slumber. Cupful of decoction sufficient for 6 people; those who drank tobacco thus "mainly old people, although young ones sometimes drank it, too" (MM). SM in 1932 drinking tobacco every night; "he doesn't dream bad dreams then" (MM). Whether person took it alone or with group optional.
[756] Tobacco without lime smoked by old men and by
276 male shamans while curing patients. Women and
887 female shamans or witches did not smoke. Chunk of tobacco broken off ball, finely crushed in

855 of time, child up to age 7-8 yrs. generally ac-
[857] companying mother wherever she went.

Child of 7, 8 shown navel cord by mother; no
852 reason ascertainable; mother then buried cord outside house (SM) or kept it (FP); LT had lost cord belonging to her eldest son, but no misfortune attributed to this fact.

572 Two unrelated boys or 2 unrelated girls, when about 8 yrs. old, often assumed chum relationship
857 (na·mun); boys exchanged bows, arrows; girls, bracelets; this relationship lasted into adult life. Chums used each other's belongings freely, lived at each other's homes "as much as they wanted to," went out hunting and to get wood together; in later life would never assume face-washing relationship (p. 68) toward each other;
[582] man might marry his chum's sister, but this not obligatory.

852 Children approaching puberty frequently lectured by old man, woman relative at sundown, outside house; no sand paintings drawn. Speech to boys taken in text (Voegelin, 1935 b, 219); FP gave following speech for girls:

539 "Listen to me! I am an old woman and know what to do. Treat the people kindly. Don't be stingy; give visitors food; when they go home they will say good things about you. Don't talk about others (gossip maliciously). Don't stare at a person when you see him coming; you will
[838] see him when he arrives. Treat the old people
[841] well; do not dislike them; the old men too. Don't eat meat or grease when you have your menses; drink only warm water then. Use a stick to scratch your head at this time; if you don't, your hair
[886] will fall out. Don't be angry all the time; if you are, you will get old quickly."

881 Adolescence.- Boys' adolescence ceremony lack-
276 ing; both boys, girls after puberty enjoined to
776 take jimsonweed by old people, to obtain "life"; many did, but this not obligatory. SM said boys took ants, tobacco for same purpose, but that
[757] these were "too strong" for girls; FP had, however, taken all 3 for specific ailments and in hopes of obtaining "life" (see Autobiography of FP).

[262] At first menses girl ate no meat, grease, or salt for one month; drank only warm water for 6 days; during subsequent periods observed these taboos for length of period only. If menstruating woman ate meat, her husband would not see game (SM); violation of food taboos gave woman cough
[413] she would "never get over" (MM). Scratching stick used. No isolation of girl in separate hut; informants disagreed whether pit used; SM in 1931 said girl at first menstruation stayed in house, being put over little hole which had hot rocks underneath "like the hole a woman used when she had a baby," but that girl was not covered with anything; mother or old woman took care of girl. In 1932 SM denied pit was ever used, except at childbirth. FP said girl went about her ordinary occupations during first period; no pit used.

THERAPEUTICAL PRACTICES

757 General good health induced by sweat bathing, observing pregnancy, menstrual taboos, bathing in hot springs, taking some simple herb medicines, as salt-grass crystals in warm water every morning for laxative purposes, to clean out stomach. In sicknesses, before taking patient to shaman for treatment which partook of nature of religious ceremony herb medicines (ti·bo·hišt) might be administered by old man, woman. Such persons often doctored ailing members of family, without any singing ceremony; "anyone who knew the right medicine for an ailment would do this; 759 sometimes a herbalist would be sent for to treat a sick person; in that event he'd be paid. People 757 learned about the medicines from their parents or grandparents, or a man would know about a medicine and other people would pay him to tell them. [177] They learned a lot about medicines from the Mexicans, too. Now the witches have spoiled all the plant medicines except jimsonweed; they can't spoil that because it's too strong" (SM). In situations where shamans failed to effect cure, herb medicines might be administered after shamanistic treatment.

757 Ants also used as medicine; charms sometimes applied to body to relieve pain.

Plant, insect remedies.- Following plant, insect remedies, unless initialed otherwise, given by SM.

757 Piece jimsonweed root (mo·mo·ht), Datura 824 meteloides HBK., weed, about 12 in. long, dug, washed, macerated, set to soak for day in 2 qts. 278 cold water; in evening water strained, given to patient, who had abstained from food, drink for 3 days and had cleaned out stomach every morning during fast with bitter drink made from roots of reise blanco. After taking dose patient fell into stupor which lasted 12-24 hrs.; during this time he was turned from one side to other; if he lay on his back or stomach he would fail to revive. FP's father blew whistle when giving her jimsonweed (see Autobiography of FP). While under influence drug patient might walk around, but was watched carefully; sometimes had visions (Voegelin, 1935 b, 215); SM imagined row of fence posts were dancers in feather costumes when he took drug; MM one time saw man who told him to take jimsonweed again in week; next time MM took it he saw white lizard drop from his shoulder, black one from his knee; when he awoke his rheumatism had disappeared. Sometimes patients, upon advice of person seen in stupor, drank jimsonweed 3 times before they were cured.

Before digging root plant addressed briefly; drink could not be administered in summer as "the roots are all right then, but when it's hot you want water; if you drink water and then drink jimsonweed, you get bloated right away" (SM). If drug taken without fasting at least 3 days, dose immediately vomited.

● 757 824 278 SM had given jimsonweed to MM for rheumatism, after shaman failed to cure him; to RP when she was badly bloated, constipated; had taken it himself when wounded in leg, as anodyne; FP had taken it for rheumatism (see Autobiography of FP).

Dry pounded jimsonweed root used as poultice on sores to relieve inflammation.

Powdered tobacco and lime snuffed to clear nose during colds. Tobacco, lime mixed with water, drunk in evening in sweat house, among groups people or by individuals in order to induce vomiting, thus insuring dreamless slumber.

Large root of yerba mansa, Anemopsis californica (Nutt.) Hook (čahpanĭ·l), boiled in qt. water for hour, decoction strained, cupful drunk every 2 hours for day or so, for heavy colds. Piece of root 1 in. long of Langloisia matthewsii (Gray) Greene (paništ), desert floral area, boiled in pint of water few minutes, dose taken 3 times during day for colds.

As laxative, 4-5 tsp. salt-grass crystals (p. 15) mixed with 1 tsp. ordinary salt in cup warm water used.

Leaves, flowers Stenotopsis linearifolius (DC) Rydb. (ča·dača·dapĭl), foothill floral area; stalks, flowers Ericameria monactis (Gray) McCl. (same name); roots of Encelia actoni Elmer, desert floral area, boiled, affected parts washed with decoction for rheumatism.

Leaves, flowers Diplacus longiflorus Nutt., or D. aurantiacus Jepson, both foothill floral area, boiled, decoction strained, drunk for stomach-ache. Dry heads Eriogonum fasciculatum Benth. var. polifolium T. & G., foothill floral area, boiled, tea drunk for stomach-ache, diarrhea.

Entire plant of turpentine weed, Trichostema lanceolatum Benth. (ši·gišt), foothill floral area, boiled, infusion snuffed up nose to stop headaches, nosebleed.

For bloody flux, entire plant Heliotropum curassavicum L., general in alkaline soils, boiled, decoction drunk; handful of dried flower heads of Eriogonum fasciculatum Benth. var. polifolium T. & G., foothill floral area, boiled 1/2 hr. in water, decoction strained, cupful given 3 times daily; mild enough to give children.

Stalks, leaves of Indian tea, Ephredra viridis Coville (u'tu·uđul), desert floral area, boiled; decoction "good for blood" (SM), used for syphilis (?).

Entire plants Eriogonum virgatum Benth. (šiko··nišpul), foothill floral area; E. baileyi Wats., E. gracillimum Wats., Chorizanthe staticoides Benth., desert floral area, boiled, infusions used as lotions for pimples.

Ripe seeds Argemone platyceras Link & Otto (šo·'lolo·pul), Great Basin floral area, pounded, used as poultice on open sores, piles. Ripe seeds of Echinocystis brandegei Cogn. (čawakišt) and E. horrida Cogn., foothill floral area, burned until black, rubbed with fingers in palm of hand until reduced to greasy paste which was smeared over pimples, rubbed over baby's umbilicus after navel

757 cord had dropped off (SM). Entire plant of Hugelia
824 densiflora Benth., foothill floral area, broken
278 up, applied as poultice for ulcers; plant also boiled, decoction drunk for heart disease.

Entire plant Euphorbia polycarpa Benth. (ʔimʔindiŋ ti·bo·hišn, rattlesnake medicine), desert, dry areas, pounded, applied as poultice to opened rattlesnake bite; plant boiled and bite washed with decoction.

Entire plant Castilleia miniata Douglas, foothill floral area, boiled, spots affected with poison oak washed with decoction daily for 4, 5 days.

Milky juice from stalks Asclepias erosa Torr. (pololi·wa·bul), desert floral area, rubbed on warts to make them disappear.

Leaves of Polygonum sp. (tamandiŋ ti·bo·hišn, tooth medicine) chewed into quid, which was held in mouth against aching tooth.

Furze from stems of Eriophyllum confertiflorum (DC) Gray (po·a·ništ), foothill floral area, scraped off with fingernail, rolled into balls 1/4-1/2 in. thick; 3 balls put in succession on spot affected with rheumatism and set on fire; balls "burned like powder." Blisters raised not pricked open immediately.

Pitch from balsam (ana·nu·l), Digger pine, Pinus sabiniana mixed with grease, used as salve on sores in recent times, not aboriginally.

757 For heavy colds, paralysis, 4-5 yellow ants
825 (SM), large red ants (FP), wrapped together in
278 little ball of eagle down; 15-20 of these balls swallowed with sips of water, one ball at time, by man, woman who had abstained from meat for month, fasted for 2-3 days and vomited each morning during fast, previous to taking ants. After swallowing the balls patient frightened, "so the ants would break out of the balls and sting patient"; latter remained in stupor 24 hrs., at end of this time given warm water to induce vomiting. According to MM, if all ants came up alive, patient would recover completely, if half of them were dead he "wouldn't live long," and if all dead he would die shortly. For FP's experience taking ants, see her Autobiography. Yellow ants "could sting hardest and had medicine"; other varieties no good (SM). After taking ants patient ate only little acorn mush for 2-3 days, no meat, grease for month (FP). Live ants also put on sick person's abdomen, "if patient didn't want to drink them" (FP).

824 If woman having protracted labor, person own-
842 ing amulet rubbed this over parturient to hasten
845 delivery. Herbal decoctions were drunk to induce
847 fecundity, to prevent conception and produce
278 abortions but the plant species from which these were made could not be obtained.

RELIGIOUS BELIEFS

771 Deity, culture hero.- Concept of supreme deity
776 lacking; "people didn't know about the man who

"people didn't know about the man who
771 lived above the sun until the white men told them
776 about God" (SM). Concept of dying benefactor was,
[771] however, part of religious belief and was, moreover, related to jimsonweed complex; "a long time
773 ago Jimsonweed was a man; his name was mo·mo·ht. He said he was going to turn into a plant and if any man was sick or broke he should dig his roots
[754] and drink him; then Jimsonweed would give him something" (SM). Mention has already been made of belief that witches are not powerful enough to destroy efficacy of this plant. But aside from addressing formula to jimsonweed when digging roots, there seems never to have been any form of worship addressed to benefactor. Neither SM, FP had heard of Chungichnich.

794 A few other details of religious belief, how-
771 ever, also seem to relate clearly to so-called jimsonweed cult and 6-god system known among
[71] tribes to W and S (Kroeber, Handbook, 623). SM said that woman, named mane·sa, lived at ayeček,
776 "across the ocean" with 5 brothers who took care
[823] of her; "whenever this woman turned over in her sleep, the earth quaked." When FP's father administered jimsonweed to FP "he blew on a whistle, so that 2 old men and an old woman who lived on the other side of the world could hear him" (see Autobiography of FP). Informants could not remember names of any of above-mentioned siblings,
● [757 save woman's. Among TÜbatulabal jimsonweed ritual
789] and pantheon referred to above seem to have existed in attentuated form, with emphasis, so far as use of jimsonweed goes, on its medicinal properties and its use in obtaining supernatural power.

773 When questioned, SM said somewhat dubiously
774 that tobacco had also once been a man, and had also spoken to the people, but that no formula was ever addressed to him. In Yokuts mythology,
[17] according to Dr. Stanley Newman, tobacco personified, and has personal name.

773 Coyote culture hero and trickster; as culture hero he causes earth to be remade after flood (Voegelin, 1935 b, 209), obtains water and fire for people, regulates division of labor (ante), causes death to come into world (Voegelin, ibid). He opposes Eagle, who is also chief (ibid., 207) during mythical age. As trickster, Coyote plays usual rôle of liar, cheat, dupe (ibid., 199, 209, 211). Informants, volunteering comments on Coyote's character, mentioned how puzzling they found his dual rôle; "Coyote--he's bad, mean; but he's good, smart, too; I don't know how that is" (MM).

774 Spirits.- Animals could "hear everything that
776 was said"; this belief extended to all flora as well, but differences of opinion expressed on whether it applied to inanimate objects such as rocks; SM said it did not, MM (ibid.) asserted rocks "tell (Bear) everything." However, rocks, streams seem not so much supernatural in themselves, but to serve as dwelling places for supernatural beings; entire region in which TÜbatulabal lived peopled with many varieties of such beings,

754 278 177 824 Besides foregoing practices, witches might also use poison (mušmal); one of witches at Onyx rancheria said to possess poison which she obtained at Tule from Yokuts, among whom poisoners active (Gayton, 1930, 390); FP mentions 2 cases poisoning in her autobiography and blames Tule River Yokuts for both. Poison used is obtained from plant and is not exclusive possession of shamans; it is administered in food, which makes people loath to accept food from strangers (SM).

753 775 Ghosts sometimes put hair, tiny pebbles in food when people ate after dark; this also caused sickness.

754 751 Various preventive measures taken against witchcraft; SM swallowed tobacco and lime every night to induce vomiting so that he would not have bad dreams. Person who dreamt of coyote, rattlesnake, went out into canyon early next morning, made speech to creature, upbraiding him, and blew bad dream away (Voegelin, 1935 b, 217). Some persons took jimsonweed, etc., to obtain supernatural power against witchcraft.

754 755 756 626 Various attempts made to overcome effects of witchcraft; relatives of sick person often made direct threats to witch; when RP sick, her brother went to witch at Onyx, told latter, "If you don't cure my sister I'm going to do something to you." Witch took RP out in bushes, threw ashes over her, talked to her pet and told it not to make RP ill any more; RP recovered. FP's husband made similar threat to witch. MM said relatives of sick person paid $10-20 to witch sometimes so that latter would stop sickening patient; FP corroborated this, SM said only threats used. Medicinal herbs [757] also administered to restore health (ante); if these failed, or in violent illness, services of curing shaman engaged; actual practices of such detailed below; shaman might or might not tell patient who was bewitching him; if witch a relative of shaman latter loath to tell, might advise patient to move away from house. If curing shaman told patient who was witching him, and latter's relatives threatened witch but to no avail, shaman might make witch come to see patient and effect cure; witch cured by blowing sickness out of patient's body, using feather which he waved back and forth. Evil shamans who could only bewitch never sucked out pain in curing a victim, as other shamans did, because if pain sucked out it would enter witch's body, cause his own death, he not being powerful enough to remove it.

683 627 622 754 If witch refused to cure sick person or stop malevolent practices, patient's relatives, after obtaining chief's sanction, often killed witch. Evil shamans both sexes treated thus; if sister of chief a witch, chief would talk to her, warn her to stop her evil practices, but if she did not he would order her killed (SM). Murder of witch might be accomplished by one or several individuals; witch might be lowered over cliff (see Autobiography of FP), shot; Bill Viejo Chico bound with hair rope, tied to tree, burned alive. In

159 loads. I liked to go with her to haul wood all
482 the time. And I went with my mother over to the
[252] pit mortars and helped her grind acorns; that's
857 what I knew how to do. All my other sisters stayed home; I only went. The boys would be playing at hunting rats, and the 2 girls cooked for them. Some girls didn't want to grind seeds or haul wood; they used to call me "old woman" because I did that. We would get up early in the morning, about daylight, and build a fire, and then my mother and I would go out. My father would be around the house working; he would go out and get a lot of quail.

159 There was one time when we were living over at
[342] cuhka·yl (no. 17, fig. 11) in a mud and brush
823 house. That's the way the Indians used to do,
173 they just moved all around; they'd camp under some willows, anywhere; they'd keep moving around all the time. A big earthquake came and frightened everybody. I was a little girl then, about 7 yrs. old; afterward my father used to tell me about that earthquake. I remember only a little bit; the springs got white, like milk, when that earthquake came. Everybody cried and went around shouting; there were lots of people living at cuhka·yl PN was living there then. We had to get water to drink from the river at Kernville; the water in the springs was hot and white, just like milk, for about 8 days. Nobody would drink it. I just remember a little bit about it; I know all the children were frightened and cried when the earth quaked.

159 After we left cuhka·yl we moved up where SM
578 lives now, at yĭtiyamup (no. 9, fig. 11). There
[423] were lots of people living there; 5 families. We just camped there in a brush house, and we had a ramada (shade) made from willows. Nobody owned that land then; we just moved around. We children used to play on the big boulders up there; my sister and I pushed a little boy down on one of the boulders; he fell down and hurt himself, and his mother was angry and quarreled with my mother. Then my father and mother got mad and moved up to the pit mortar bed near there; they stayed there 2 days; then we moved up to omomĭp again. They all moved up to omomĭp, all those people living that time at yĭtiyamup; that woman who got angry came along, too. That's the way the Indians did; they moved all around, camping; they should have gotten land. And that woman camped at omomĭp, too. We made a mud and brush house there, different from the ramada.

159 One brother of mine had died while we were stay-
276 ing down at yĭtiyamup. We stayed at omomĭp for 2
757 yrs. I was rather sickly; weak; I didn't feel good, all the time; my father told me to take jimsonweed. Everybody had supper over at our house; I didn't eat anything that whole day. After they had had supper everybody left, and about sundown, when it was getting dark my father said, "I'm going to give you this medicine. You'll be all right."

159 He gave me a big basket half full of the
756 drink. I drank it all; it was bitter, o-o-o-oh!
756 My father blew on a (quill) whistle, after he
276 gave me that medicine. One old woman and 2 old men could hear him blowing, away off on the other side of the world.

After I had taken that medicine a white man came to see us. He said, "What's the matter with her?" I was outside there, walking around; I didn't eat anything. People walk around like that, heavy-footed, when they drink jimsonweed. I didn't know anything; I was "drunk." They told that white man they had given me medicine, Indian medicine.

"What are you giving her that for? You're going to kill her," the white man told my father.

"No," they said, "that's good medicine."

For about 3 days I didn't know anything; I just walked around drunk; they watched me, but I didn't know anything. I didn't see anything, except for everything running past me. Some people get power when they take jimsonweed, but I didn't. After 3 days I woke up; I was much better after that.

159 Just for fun, after we had stayed at omomip
241 for 2 yrs., we moved from there up to u·u·pu·lap (no. 4, fig. 11); all the people at omomip did. We had gardens at u·u·pu·lap; we planted onions and potatoes. We put a long rope down and then planted the onions in a long straight line.

159 I became sick at u·u·pu·lap; my arm was bent
757 and I couldn't straighten it. So I didn't eat meat for a month, then my aunt gave me red ants. She gave me half a baking-powder can full of little balls of cotton with live red ants wrapped up inside them. I hadn't eaten anything the day before my aunt gave me those ants. One time a man ate pinole, and then took ants and he died that night, because he had eaten that pinole. I took the ants in the morning and slept all day; then I woke up and everything was clear and bright. The red ants that are all around here now are the ones I took. I didn't eat any meat for a month; if I had, then when I took the ants, they would have killed me.

Those ants are good to take for a bad cold too, wrapped up in eagle down. When you take them you burn inside in your stomach, just like fire; you get hot inside; they bite you there, I guess. I slept all day the time I took ants; I was unconscious and I slept outside on the ground and rolled over and over in the dirt. My hair got all full of dirt; I didn't know anything. They gave me warm water to drink when I woke up that evening; then I vomited, but nothing came up except water. The cotton and ants had disappeared. I could straighten out my arm again.
[262] After that I just ate acorn gravy and a little bread; no meat or grease for a month.

159 One time when I was visiting my aunt up at
304 Canebrake (no. 1, fig. 11) Piñon Joe's mother (a Koso) tattooed me. I was about Esther's age (FP's granddaughter, aged 12); we were playing

1: Gayton E-5 (1925-1930) 1948 NS29 Yokuts NS29
[P. 520] Tubatulabal NS22

T Y 534 known. The clapper (tawa´tw:l) and cocoon rattle (sa´nač) were used. The musical bow was known to the Southern Yokuts, Choinimni Yokuts, and probably northward throughout the foothills as it is reported from Western Mono, Miwok, and Maidu. [131]

T Y 224 411 Hunting.---P.M.'s father was a fine hunter; Cougar was his dream helper. When P.M. was about fifteen years old, his father took him hunting. Sinew-backed bows were bought from Pitanisha (Tübatulabal) living near Kernville. But plain bows of elderwood [? he claimed] were made at Sototlo. Arrows were of button willow tipped with a white-oak point, or of obsidian if for deer.

T Y 224 The deer disguise was made of the complete head, antlers, and skin. The head was stuffed with grass. The wearer leaned on two sticks to imitate the animal, and with them would crash about in underbrush to simulate fighting deer.

Bears were lured out of their caves by a fast runner, and shot by two or three good hunters waiting in ambush.

After the killing of an especially large deer or bear, the animal's head was sprinkled with eagle down. P.M. never heard of selling bear paws or skin to someone with a bear totem. He thinks bear was not a totem animal for any one at Sototlo.

In dividing up a carcass, the man who took the skin did not receive any meat. Men did tanning of hides.

T Y 223 The pigeon booth from which birds were snared is probably native to this region, as well as northward along the foothills, although that seen and illustrated by Holmes was on the Tule River Reservation.[132]

T Y 276 Tobacco.---Tobacco (so´gon) was drunk with lime. The preparation was like that elsewhere: the cakes of dried leaves were pounded with a small mortar (koi´was) and pestle (pa´lwi), crushed shells (ta´sop) were added, and water was stirred in. It was taken in the evening by persons of either sex who were at least twenty years of age; the purpose was to aid dreaming. Crushed tobacco was smoked in a cane pipe (ha´la) or an elderwood pipe (wi'se´ta, elderwood). Tobacco was made in the usual two cake forms, so´gon and politsi´na, but of the latter P.M. could only say that it was stronger and molded in the usual cylindrical shape.

T Y 372 Tinder.---Oak balls contained a shreddy, corklike substance called ye´ska, which was used as tinder in making fires and lighting pipes.

T Y 278 757 Medicine.---Redwood sap (ta´nal) was shaved up in a pot of hot water. A person with a wound which bled profusely steamed himself with this under a blanket; a woman who had given birth also used it in this way. A little of

[131] Ibid., 419, 542; Barrett and Gifford, 250; Wobonuch Western Mono, herein, Pt. II.

[132] Anthropological Studies, pls. 31, 32.

[P. 526] Tubatulabal NS22

T Y 757 278

the sap was chewed for a cold, but it was extremely bitter. The interpreter, S.G., bit off a little piece of tanal in my presence, made an excruciating face, spat it out, and said he "guessed he'd wait till he had a bad cold."

T Y 616

Moiety.---The words Nutuwich and Tokelyuwich greatly puzzled F.M., who said he had never heard about those people "and guessed those tribes were all gone." A description of the moiety as it functions amongst northern and lake Yokuts tribes merely elicited the statement that "people down here didn't act that way."

CEREMONIES

T Y 796

Snake ritual.---This F.M. has seen at Tule, but it was not made at Sototlo.

Bear Dance.---This was "never done down this way; they had it up toward Kaweah River."

Huhuna Dance.---This was not seen until after F.M. had settled at Tule, where it was introduced by people from the north.

T Y 756

Shamans' Contest.---There were not enough doctors at Sototlo for contests to be held, but these were given later at Tule where Poi'in, the woman shaman, participated.

T Y 796 237

Eagle purchase.---A man who killed an eagle would go from house to house, and at each he would be given a bit of money. Then he went to the chief who gave him a larger sum of money and received the carcass. Then the chief called the people together. After removing the skin and shinbones, they buried the carcass with some ceremony; money was always placed with it. An old man would get up and make a speech.[133] There was a tabu on meat for three days after the ceremony.

T Y [435]

Eagle down, thus obtained by the chief, was sold by him. The old price was one [double ?] string of disc beads the length of one's arm; later $2.00 per leg was charged. The down was scattered when any act of importance was undertaken. When praying, no matter to whom the prayer was addressed, or when traveling, one sprinkled down on a hilltop or in a gap between two hills. The sanctity of eagle down was evinced by its peculiar ability to "stick anywhere on anything"; it sticks to the fingers, and when cast on the ground it does not blow away.

Jimsonweed Ritual

T Y 276 796 [757]

Jimsonweed (ta´nai) was taken about February; the rite was held every two or three years. Only men took jimsonweed; indulgence was not compulsory; it was taken only once ceremonially, but might be used frequently for medicinal purposes.

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[133] F.M. could not remember what this was about, and said he "couldn't tell it anyway because my language is too short."